Plant Responses to Salinity: An Indexed Bibliography

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PLANT RESPONSES TO SALINITY: AN INDEXED BIBLIOGRAPHY

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PREFACE

Literature on plant responses to salinity is accumulating so rapidly it is nearly impossible to stay abreast of the current state of the art. Currently available computer searches are unable to provide pertinent citations without listing an excess of irrelevant citations. Furthermore, most computer-searchable data bases are limited to the past 10 years or less.

This computer-based bibliography resulted from the need for an extensive bibliography of publications on plant responses to salinity that can be readily searched and updated. The bibliography currently contains 2,357 citations obtained through a systematic search and review of the literature on salt and boron effects on plants from 1900 to 1977. Generally, only publications dealing with whole plants were included. Physiological and biochemical studies of salt effects on plant tissues and constituents were omitted.

All publications were reviewed for specific information on the plants studied, experimental materials and methods used, treatments and variables evaluated, and the results and data obtained. This information was included in the bibliography in the form of keywords. A computer-generated index allows rapid identification of the desired entries by plant names or by subject.

Because the bibliography is computer-readable, corrections and additions can be made at any time. We respectfully request that all users bring any errors and omissions to our attention. It is our intention to keep this bibliography current and accurate through periodic revisions. To facilitate this task, we would solicit reprints of any new papers published on this subject. Our address is U.S. Salinity Laboratory, Science and Education Administration, 4500 Glenwood Drive, Riverside, Calif. 92501.

ABSTRACT

Computer-based bibliography containing 2,357 literature citations, from 1900 to 1977, on salt and boron effects on whole plants. Keywords for each citation cover plants studied, experimental materials and methods used, treatments and variables evaluated, and results and data obtained. Computer-generated indexes allow rapid identification of desired entries by plant name or subject.

CONTENTS

INSTRUCTIONS FOR USE

Bibliographic Format

The citations are listed alphabetically by author and appear in the following order: Citation number; authors; title; language of article (other than English); journal name, volume, page numbers, and year; common plant names; botanical names; and keywords that describe methods, treatments, and results. The keyword categories are separated by double spaces.

Language Abbreviations

The following abbreviations are used to indicate the language of papers not published in English. Where English summaries were included, they are indicated by the abbreviation, ENG SUM.

AFR	Afrikaans	ITA	Italian
ARA	Arabic	JAP	Japanese
ARM	Armenian	KOR	Korean
CHI	Chinese	NOR	Norwegian
CZE	Czech	POL	Polish
DAN	Danish	POR	Portuguese
DUT	Dutch	RUM	Rumanian
FIN	Finnish	RUS	Russian
FRE	French	SPA	Spanish
GER	German	TUR	Turkish
HEB	Hebrew	UKR	Ukrainian
HUN	Hungarian		

Botanical Details

Many plant species have several common names and others none at all. For this reason and because some names are used differently in different regions, we recommend the use of botanical names whenever possible. Nevertheless, common names are included for convenience. Lesser known names used in many foreign publications were changed to popular names known to us. Hortus Third (MacMillan Publishing Co., New York 1976) was used as the authority where possible. Other reference sources used include:

Bailey, L. H. 1949. Manual of Cultivated Plants. MacMillan Co., New York.

Munz, P. A. and Keck, D. D. 1965. A California Flora. University of California Press, Berkeley, Calif.

Robbins, W. W., Bellue, M. K., and Ball, W. S. 1970. Weeds of California. Documents and Publications, Sacramento, Calif.

Willis, J. C. 1973. A Dictionary of the Flowering Plants and Ferns. Ed. 8. Cambridge University Press.

Compound names are listed with the primary name first followed by appropriate modifiers, for example,

clover, white New Zealand. Botanical names are grouped by families and include family, genus, species, and occasionally variety, for example, *Gramineae: Zea mays, Hordeum vulgare; Chenopodiaceae: Beta vulgaris; Cruciferae: Brassica oleracea* var. *capitata*.

Indexes

Four indexes are provided to locate specific citations of interest. They provide alphabetical listings of common plant names, botanical plant names, terms describing treatments, and terms describing results.

Generally, each plant species is listed under one common name. Referrals are provided for a number of synonymous names. Hyphenated names appear alphabetically after the complete listing of nonhyphenated names. Some general terms (for example, cactus and thorns) appear because species were not identified; however, these terms are not all inclusive. Botanical names are listed by genus, species (unless unknown), and, in some cases, variety.

Both the treatment and result indexes include all the terms mentioned in those respective categories. Treatment salts are not identified as such but are listed as the constituent ions. Users are advised to refer to synonymous and related terms to locate all citations relevant to a particular subject.

Searches

Since the bibliography is stored on tape, customized computer searches can be made readily by authors (for example, to locate co-authors), plant species, or keywords; however, for most users, direct reference to the printed indexes will probably be far more expeditious. As corrections and additions are made to the computer file in the future, computer searches of that data base may be advantageous until an updated printed version becomes available.

Requests for computer searches should be sent to:

USDA-SEA-TIS
National Agricultural Library
Beltsville, Md. 20705

These services will be available on a limited basis, at no charge, to all users; however, this policy is subject to change without notice. Questions regarding costs of frequent or extensive usage should be directed to the attention of the Chief, Technical Information Systems.

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Questions concerning these services should be directed to the attention of the Chief, Lending Division.

1. ABAZA, M.; GHONEIM, M. F.; ZWAIK, A. USE OF SEA-WATER DILUTIONS FOR IRRIGATION IN SAND DUNES IN THE NORTHERN COASTS IN LIBYA. LIBYAN J. AGRIC. 3: 7-18, 1974. ALFALFA; BARLEY; BEET; FLAX; SAFFLOWER; WHEAT LEGUMINOSAE: MEDICAGO SATIVA; CHENOPODIACEAE: BETA VULGARIS; GRAMINEAE: TRITICUM AESTIVUM, HORDEUM VULGARE; LINACEAE: LINUM USITATISSIMUM; COMPOSITAE: CARTHAMUS TINCTORIUS. SAND, LYSIMETER, POT, FIELD PLOT, SOIL SEA WATER VEGETATIVE GROWTH, MINERAL COMPOSITION

2. ABDEL SALAM, M. A.; EL NOUR, S. A. INTERACTION OF SALINE WATER IRRIGATION AND NITROGEN FERTILIZATION ON CORN PRODUCTION IN CALCAREOUS SOIL. J. SOIL SCI. U.A.R. 5: 121-134, 1965. CORN GRAMINEAE, ZEA MAYS. LYSIMETER, SOIL SODIUM, CALCIUM, MAGNESIUM, CHLORIDE, NITROGEN, SODIUM ADSORPTION RATIO, FERTILITY VEGETATIVE GROWTH, MINERAL COMPOSITION

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GROWTH, GERMINATION

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435. COOPER. W. C.: PEYNADO. A.: MAXWELL. N.: OTEY. G. SALT TOLERANCE AND COLD HARDINESS TESTS ON AVOCADO TREES. J. RIO GRANDE VALLEY HORT. SCI. 11: 67-74. 1957. AVOCADO LAURACEAE: PERSEA AMERICANA. FIELD PLOT. SOIL SODIUM. CALCIUM. CHLORIDE. VARIETY LEAF INJURY. CHLORIDE UPTAKE

436. COOPER. W. C.: PEYNADO. A.: OLSEN. E. O. RESPONSE OF GRAPEFRUIT ON TWO ROOTSTOCKS TO CALCIUM ADDITIONS TO HIGH-SODIUM, BORON CONTAMINATED. AND SALINE IRRIGATION WATER. SOIL SCI. 86: 180-184. 1958. GRAPEFRUIT RUTACEAE: CITRUS PARADISI. FIELD. SOIL BORON. CALCIUM. SODIUM. CHLORIDE. SULFATE. NITROGEN. ROOTSTOCK. SODIUM ADSORPTION RATIO LEAF INJURY. MINERAL COMPOSITION. ROOT GROWTH

437. COOPER. W. C.: PEYNADO. A.: SHULL. A. V. SCREENING CITRUS ROOTSTOCK SEEDLINGS FOR TOLERANCE TO CALCAREOUS SOILS. PROC. ANN. RIO GRANDE VALLEY HORT. INST. 8: 100-105. 1954. CITRUS RUTACEAE: CITRUS. FIELD PLOT. SOIL CALCAREOUS SOIL. CALCIUM. CARBONATE. ROOTSTOCK IRON CHLOROSIS. LEAF INJURY

438. COOPER. W. C.: SHULL. A. V. SALT TOLERANCE OF AND ACCUMULATION OF SODIUM AND CHLORIDE IONS IN GRAPEFRUIT ON VARIOUS ROOTSTOCKS GROWN IN A NATURALLY SALINE SOIL. PROC. RIO GRANDE VALLEY HORT. INST. 7: 107-117. 1953. GRAPEFRUIT RUTACEAE: CITRUS PARADISI. SOIL. FIELD PLOT SALINE SOIL. ROOTSTOCK. SULFATE. BICARBONATE. CHLORIDE. SODIUM. CALCIUM. MAGNESIUM SODIUM UPTAKE. CHLORIDE UPTAKE. LEAF INJURY. SALT TOLERANCE

439. CORBETT. E. G.: GAUSMAN. H. W. THE INTERACTION OF CHLORIDE WITH SULFATE AND PHOSPHATE IN THE NUTRITION OF POTATO PLANTS (SOLANUM TUBEROSUM). AGRIC. J. 52: 94-96. 1960. POTATO SOLANACEAE: SOLANUM TUBEROSUM. GREENHOUSE. SAND. POT. WATER CULTURE CHLORIDE. SULFATE. PHOSPHATE. SODIUM SULFATE UPTAKE. PHOSPHATE UPTAKE. VEGETATIVE GROWTH

440. CORDUKES. W. E. TOLERANCE OF VARIOUS TURFGRASSES TO FOLIAR APPLICATION OF ROAD SALT. GREENHOUSE GARDEN GRASS 7: 1-3. 1968. BLUEGRASS. KENTUCKY; FESCUE. RED CREEPING; BENTGRASS; FESCUE. TALL; RYEGRASS; BLUEGRASS. ANNUAL; DANDELION; PLANTAIN. COMMON; CHICKWEED. MOUSE-EARED GRAMINEAE: POA PRATENSIS. FESTUCA RUBRA. AGROSTIS TENUIS. AGROSTIS PALUSTRIS. FESTUCA ARUNDINACEA. LOLIUM PERENNE. POA ANNUA; COMPOSITAE: TARAXACUM OFFICINALE; PLANTAGINACEAE: PLANTAGO MAJOR; CARYOPHYLLACEAE: CERASTIUM VULGATUM. POT. SOIL VARIETY. DEICING SALT SALT TOLERANCE. LEAF INJURY

441. CORDUKES. W. E. TURFGRASS TOLERANCE TO ROAD SALT. GOLF SUPER. 38: 44-48. 1970. BLUEGRASS. KENTUCKY; FESCUE. RED CREEPING; FESCUE. TALL; RYEGRASS. PERENNIAL; BLUEGRASS. ANNUAL GRAMINEAE: POA PRATENSIS. FESTUCA RUBRA. FESTUCA ARUNDINACEA. LOLIUM PERENNE. POA ANNUA. SOIL. FIELD. POT. GREENHOUSE SODIUM. CHLORIDE. FOLIAR SPRAY CHLORIDE UPTAKE. LEAF INJURY. GERMINATION

442. CORDUKES. W. E.; MACLEAN. A. J. TOLERANCE OF SOME TURFGRASS SPECIES TO DIFFERENT CONCENTRATIONS OF SALT IN SOILS. CAN. J. PLANT SCI. 53: 69-73. 1973. BLUEGRASS. KENTUCKY; FESCUE. RED CREEPING; RYEGRASS. PERENNIAL GRAMINEAE: POA PRATENSIS. FESTUCA RUBRA. LOLIUM PERENNE. POT. SOIL. GREENHOUSE CALCIUM. CHLORIDE. SOIL TYPE LEAF INJURY. CHLORIDE UPTAKE. ROOT GROWTH

443. CORDUKES. W. E.; PARUPS. E. V. CHLORIDE UPTAKE BY TURFGRASSES AS AFFECTED BY CALCIUM LEVELS. CAN. J. PLANT SCI. 52: 247-249. 1972. BLUEGRASS. KENTUCKY; FESCUE. RED; RYEGRASS. PERENNIAL GRAMINEAE: POA PRATENSIS. FESTUCA RUBRA. LOLIUM PERENNE. POT. GREENHOUSE. VERMICULITE. SAND CHLORIDE. CALCIUM. SULFATE CHLORIDE UPTAKE

444. CORDUKES. W. E.; PARUPS. E. V. CHLORIDE UPTAKE BY VARIOUS TURFGRASS SPECIES AND CULTIVARS. CAN. J. PLANT SCI. 51: 485-490. 1971. BENTGRASS. HIGHLAND; RYEGRASS. ITALIAN; RYEGRASS. PERENNIAL; TIMOTHY; BLUEGRASS. KENTUCKY; FESCUE. TALL; FESCUE. RED GRAMINEAE: AGROSTIS TENUIS. LOLIUM MULTIFLORUM. LOLIUM PERENNE. PHLEUM PRATENSE. POA PRATENSIS. FESTUCA ARUNDINACEA. FESTUCA RUBRA. SAND. VERMICULITE. GREENHOUSE CHLORIDE. SULFATE. CARBONATE CHLORIDE UPTAKE

445. COSTANTINI. A.; RICH. A. E. COMPARISON OF SALT INJURY TO 4 SPECIES OF CONIFEROUS TREE SEEDLINGS WHEN SALT WAS APPLIED TO THE POTTING MEDIUM AND TO THE NEEDLES WITH OR WITHOUT AN ANTI-TRANSPIRANT. PHYTOPATH. 63: 200. 1973. PINE. WHITE; PINE. SCOTS; SPRUCE. WHITE; FIR. SOUTHERN BALSAM PINACEAE: PINUS STROBUS. PINUS SYLVESTRIS. PICEA GLAUCA. ABIES FRASERI. GREENHOUSE. POT. PEAT MOSS SODIUM. CHLORIDE. ANTITRANSPIRANT. SALT SPRAY LEAF INJURY. CHLORIDE UPTAKE

446. COUDRET. A. ACTION DE DIFFERENTS SELS SUR LE DEROULEMENT DE LA GERMINATION ET SUR L'EVOLUTION DE PHENOMENE RESPIRATOIRE CHEZ LES GRAINES DE ZYGOPHYLLUM ALBUM L. GERMINATION AND RESPIRATION OF ZYGOPHYLLUM ALBUM WITH DIFFERENT SALT CONCENTRATIONS. (FRE. ENG SUM). BULL. SOC. BOT. FR. 118: 471-480. 1971. ZYGOPHYLLACEAE: ZYGOPHYLLUM ALBUM. SODIUM. MAGNESIUM. CHLORIDE. SULFATE GERMINATION. RESPIRATION

447. COUPIN. H. SUR LA TOXICITE DU CHLORURE DE SODIUM ET DE L'EAU DE MER A L'EGARD DES VEGETAUX. TOXICITY OF SODIUM CHLORIDE AND SEA WATER WITH RESPECT TO PLANTS. (FRE). REV. GEN. BOT. (PARIS) 10: 177-190. 1898. WHEAT; CORN; PEA; LUPINE; VETCH GRAMINEAE: TRITICUM AESTIVUM. ZEA MAYS; LEGUMINOSAL: PISUM SATIVUM. LUPINUS. VICIA. WATER CULTURE. POT SODIUM. CHLORIDE. SEA WATER GERMINATION

448. CROWLE. W. L. REVENUE SLENDER WHEATGRASS. CAN. J. PLANT SCI. 50: 748-749. 1970. WHEATGRASS. SLENDER GRAMINEAE: AGROPYRON TRACHYCAULUM. GREENHOUSE. SOIL SALINE SOIL GERMINATION. VEGETATIVE GROWTH

449. CURRIER. H. B. EFFECTS OF TOXIC COMPOUNDS: STIMULATION. INHIBITION. INJURY. AND DEATH. ENCYCLOPEDIA PLANT PHYSIOL. SPRINGER-VERLAG. BERLIN II: 792-825. 1956.

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DOGWOOD; MAPLE, RED; OAK, WILLOW; CHERRY, BLACK; HICKORY, SHAGBARK; HOLLY, AMERICAN; POPLAR, LOMBARDY PINACEAE: PINUS VIRGINIANA, PINUS TAEDA; ROSACEAE: PRUNUS SEROTINA; ACERACEAE: ACER RUBRUM; CORNACEAE: CORNUS FLORIDA; LAURACEAE: SASSAFRAS ALBIDUM; SALICACEAE: POPULUS NIGRA; ANACARDIACEAE: RHUS GLABRA; FAGACEAE: QUERCUS PHELLOS; VITACEAE: VITIS LABRUSCA; AQUIFOLIACEAE: ILEX OPACA; LEGUMINOSAE: ROBINIA PSEUDOACACIA; JUGLANDACEAE: CARYA OVATA. FIELD, SOIL COOLING TOWER, SALT DRIFT SODIUM UPTAKE, CHLORIDE UPTAKE, ECOLOGY

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452. DAHIYA, S. S.; SINGH, M. EFFECT OF SALINITY, ALKALINITY AND IRON APPLICATION ON THE AVAILABILITY OF IRON, MANGANESE, PHOSPHORUS AND SODIUM IN PEA (PISUM SATIVUM L.) CROP. PLANT SOIL 44: 697-702. 1976. PEA LEGUMINOSAE: PISUM SATIVUM. GREENHOUSE, SOIL FERTILIZER, IRON, CALCIUM, CARBONATE, SODIUM, BICARBONATE, SULFATE, CHLORIDE, POTASSIUM, MAGNESIUM MINERAL COMPOSITION, IRON UPTAKE, PHOSPHORUS UPTAKE

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455. DAM, J. G. C. VAN ONDERZOEK NAAR DE ZOUTGEVOELIGHEID VAN DE BELANGRIJKSTE VOLLEGRONDS GROENTEGEWASSEN. RESEARCH ON THE SALT SUSCEPTABILITY OF THE PRINCIPLE OUTDOOR VEGETABLE CROPS. (DUT; ENG SUM). NETHERLANDS DIR. VAN DE TUINBOUW, MEDED. 17: 811-820. 1954. SPINACH; BEET; KALE; CABBAGE; BRUSSEL SPROUT; CAULIFLOWER; RADISH; CELERIAC; CARROT; CHICORY; LETTUCE; ENDIVE; LEEK; STRAWBERRY; BEAN; POTATO; PURSLANE CHENOPODIACEAE: SPINACIA OLERACEA, BETA VULGARIS; CRUCIFERAE: BRASSICA OLERACEA VAR ACEPHALA, BRASSICA OLERACEA VAR CAPITATA, BRASSICA OLERACEA VAR GEMMIFERA, BRASSICA OLERACEA VAR BOTRYTIS, RAPHANUS SATIVUS; UMBELLIFERAE: APIUM GRAVEOLENS VAR RAPACEUM, DAUCUS CAROTA VAR SATIVA; COMPOSITAE: CICHORIUM INTYBUS, LACTUCA SATIVA, CICHORIUM ENDIVIA; AMARYLLIDACEAE: ALLIUM PORRUM; ROSACEAE: FRAGARIA; LEGUMINOSAE: PHASEOLUS VULGARIS; SOLANACEAE: SOLANUM TUBEROSUM; PORTULACACEAE: PORTULACA. FIELD.PLOT, SOIL SEA WATER, SALINE SOIL GERMINATION, LEAF INJURY

456. DAMIGELLA, F.; TRIBULATO, E.; NICOSIA, O. L. DANNI DA ECCESSO DI SALI IN ALBERI DI ARANCIO IN RELAZIONE AI SISTEMI DI IRRIGAZIONE. DAMAGE FROM EXCESS SALTS IN ORANGE TREES IN RELATION TO VARIOUS IRRIGATION SYSTEMS. (ITA). ANN. PHYTOPATH. 1: 67-74. 1969. ORANGE RUTACEAE: CITRUS SINENSIS. SOIL, FIELD SALINE WATER, IRRIGATION METHOD LEAF INJURY

457. DANBERG, K. S. SALT WATER GARDENING. SEA GRANT 70'S 6: 2-4. 1976. HALOPHYTE; CORDGRASS, SMOOTH; SALTGRASS; CORDGRASS, ORACH SALTMEADOW; PEAR, PRICKLY GRAMINEAE: SPARTINA ALTERNIFLORA, SPARTINA PATENS, DISTICHLIS SPICATA; CHENOPODIACEAE: ATRIPLEX PATULA; CACTACEAE: OPUNTIA HUMIFUSA. SAND, FIELD PLOT, SOIL BRACKISH WATER VEGETATIVE GROWTH

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461. DARRA, B. L.; JAIN, N.; SINGH, H. EFFECT OF GROWTH-REGULATORS AND SALTS ON THE GERMINATION OF WHEAT (TRITICUM AESTIVUM L.) UNDER HIGH SALINITY, SODIUM ADSORPTION RATIO AND BORON LEVELS. INDIAN J. AGRIC. SCI. 40: 438-444. 1970. WHEAT GRAMINEAE: TRITICUM AESTIVUM. POT, SOIL SODIUM, MAGNESIUM, CALCIUM, CHLORIDE, BORON, GIBBERELLIC ACID, INDOLEACETIC ACID, INDOLEBUTYRIC ACID, POTASSIUM, PHOSPHATE, NAPHTHALENEACETIC ACID GERMINATION

462. DARRA, B. L.; SAXENA, S. N. EFFECT OF PRE-SOAKING SEED TREATMENT WITH INDOLE-ACETIC-ACID ON WHEAT UNDER DIFFERENT SALINITY REGIMES COUPLED WITH SAR AND BORON LEVELS. INDIAN J. AGRIC. RES. 8: 215-220. 1974. WHEAT GRAMINEAE: TRITICUM AESTIVUM. FIELD PLOT, SOIL SODIUM ADSORPTION RATIO, BORON, SEED PRETREATMENT, INDOLEACETIC ACID NITROGEN UPTAKE, MINERAL COMPOSITION

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467. DAS, S. K.; MEHROTRA, C. L. SALT TOLERANCE OF SOME AGRICULTURAL CROPS DURING EARLY GROWTH STAGES. INDIAN J. AGRIC. SCI. 41: 882-888. 1971 WHEAT; BARLEY, OATS; CORN; RICE, SORGHUM; PEA, CHICK; LENTIL; COTTON; PEA GRAMINEAE: TRITICUM AESTIVUM, HORDEUM VULGARE, AVENA SATIVA, ZEA MAYS, ORYZA SATIVA, SORGHUM VULGARE; LEGUMINOSAE: CICER ARIETINUM, LENS CULINARIS, PISUM SATIVUM; MALVACEAE: GOSSYPIUM. POT, SOIL SODIUM, CALCIUM, MAGNESIUM, POTASSIUM, CHLORIDE, SULFATE, NITRATE VEGETATIVE GROWTH, MINERAL COMPOSITION

468. DASSLER, H. G.; BORTITZ, S.; LIESSNER, A. ZUR PHYTOTOXIZITAT VON AUFTAUSALZEN. PHYTOTOXICITY OF ROAD DE-ICING SALTS. (GER; ENG SUM). ARCHIV. FUR. NATURSCHUTZ UND LANDSCHAFTSFORSCHUNG 15: 69-76. 1975. PINE, SCOTS PINACEAE: PINUS SYLVESTRIS. FIELD, SOIL DEICING SALT LEAF INJURY, CHLORIDE UPTAKE

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474. DAY, A. D.; TURNER, F., JR.; KIRKPATRICK, R. M. GROWING BARLEY (HORDEUM VULGARE L.) ON BEDS IN SALINE SOIL. AGRON. J. 63: 768-769. 1971. BARLEY GRAMINEAE: HORDEUM VULGARE. FIELD, SOIL PLANTING METHOD, SALINE WATER GRAIN YIELD

475. DE FORGES, J. M. RESEARCH ON THE UTILIZATION OF SALINE WATER FOR IRRIGATION IN TUNISIA. NATURE RESOURCES 6: 2-6. 1970. ALFALFA; CLOVER BERSEEM; PIMENTO; BEAN; ARTICHOKE; RYEGRASS; WATERMELON; SUDAN GRASS; CORN; TOMATO LEGUMINOSAE: MEDICAGO SATIVA, TRIFOLIUM ALEXANDRINUM, PHASEOLUS VULGARIS; MYRTACEAE: PIMENTA DIOICA; GRAMINEAE: LOLIUM, SORGHUM SUDANENSE, ZEA MAYS; SOLANACEAE: LYCOPERSICON ESCULENTUM; CUCURBITACEAE: CITRULLUS VULGARIS; COMPOSITAE: CYNARA SCOLYMUS.

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477. DE LA ROCHA GARCIA, G.; COSIO, D. F. TOLERANCIA DE LAS DIVERSAS ESPECIES FRUTALES AL CONTENIDO DE SAL EN EL SUELO. TOLERANCE OF VARIOUS KINDS OF FRUIT TREES TO THE SALT CONTENT OF THE SOIL. (SPA). BOLN. TRIM. EXPT. AGROPEC. 7: 15-19. 1958. AVOCADO; OLIVE; PRUNE; ORANGE; LEMON; APPLE; GRAPE RUTACEAE: CITRUS LIMON, CITRUS RETICULATA, CITRUS SINENSIS; OLEACEAE: OLEA EUROPAEA; LAURACEAE: PERSEA AMERICANA; ROSACEAE: PRUNUS DOMESTICA, MALUS SYLVESTRIS; VITACEAE: VITIS. SODIUM, CHLORIDE LEAF INJURY, SALT TOLERANCE

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SPRINKLING AND IMMERSION. PLANT PHYSIOL. 34: 22-26. 1959. ORANGE: LEMON RUTACEAE: CITRUS SINENSIS, CITRUS LIMON. POT, SOIL SPRINKLER IRRIGATION, POTASSIUM, SODIUM, CALCIUM, CHLORIDE, IMMERSION MINERAL COMPOSITION

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POA. PUCCINELLIA LEMMONII. ZEA MAYS. AVENA SATIVA. DISTICHLIS STRICTA. EUCHLOE DACTYLOIDES. PUCCINELLIA DISTANS. PUCCINELLIA AIROIDES. DISTICHLIS SPICATA. SPARTINA GRACILIS. SPOROBOLUS AIROIDES. PHRAGMITES COMMUNIS. MUHLENBERGIA ASPERIFOLIA. SOIL. FIELD SALINE SOIL. ALKALI SOIL. SODIUM. CHLORIDE VEGETATIVE GROWTH

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LEGUMINOSAE: MEDICAGO SATIVA. PISUM SATIVUM. MELILOTUS ALBA. TRIFOLIUM ALEXANDRINUM. VICIA FABA. VICIA VILLOSA. VICIA SATIVA; PUNICACEAE: PUNICA GRANATUM; CRUCIFERAE: BRASSICA OLERACEA. BRASSICA NAPUS. BRASSICA OLERACEA VAR BOTRYTIS. BRASSICA OLERACEA VAR CAPITATA; SALICACEAE: POPULUS FREMONTII. UMBELLIFERAE: APIUM GRAVEOLENS VAR DULCE; LILIACEAE: ASPARAGUS OFFICINALIS; AMARYLLIDACEAE: ALLIUM CEPA; MALVACEAE: GOSSYPIUM HIRSUTUM; LINACEAE: LINUM USITATISSIMUM; CONVOLVULACEAE: IPOMOEA BATATAS; SOLANACEAE: SOLANUM TUBEROSUM. SOLANUM MELONGENA; VITACEAE: VITIS VINIFERA; PALMACEAE: PHOENIX DACTYLIFERA. WASHINGTONIA. PHOENIX CANARIENSIS; CASUARINACEAE: CASUARINA; APOCYNACEAE: NERIUM OLEANDER; MYRTACEAE: EUCALYPTUS GLOBULUS. EUCALYPTUS TERETICORNIS. EUCALYPTUS ROSTRATA; PLATANACEAE: PLATANUS ORIENTALIS; MELIACEAE: MELIA AZEDARACH; SAPINDACEAE: KOELREUTERIA; RUTACEAE: CITRUS SINENSIS. CITRUS LIMON; ROSACEAE: PRUNUS DOMESTICA. PRUNUS ARMENIACA. PRUNUS PERSICA. PRUNUS; JUGLANDACEAE: JUGLANS REGIA. ALKALI TOLERANCE. SODIUM TOLERANCE

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CONFERTIFOLIA, GRAYIA SPINOSA, EUROTIA LANATA, ATRIPLEX; ACAVACEAE: YUCCA; ZYGOPHYLLACEAE LARREA TRIDENTATA; LEGUMINOSAE: DALEA; CACTACEAE:

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CROTON PUNCTATUS. EUPHORBIA POLYGONIFOLIA; GRAMINEAE: SPARTINA PATENS. UNIOLA PANICULATA. CHLORIS PETRAEA. CYNODON DACTYLON; COMPOSITAE: SOLIDAGO MEXICANA. IVA IMBRICATA. IVA FRUTESCENS. BORRICHIA FRUTESCENS. HETEROTHECA SUBAXILLARIS. LEPTILON CANADENSE. FIELD. SOIL SALT SPRAY SALT TOLERANCE. LEAF INJURY

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1540. OSAWA. T. EFFECT OF THE AVAILABLE NITROGEN DIFFERENT IN FORMS ON PAK-CHOI. BRASSICA CHINENSIS L. INJURED BY THE SALINITY. BULL. UNIV. OSAKA PREF. SERIES B5: 15-18. 1955. PAK-CHOI CRUCIFERAE: BRASSICA CHINENSIS. POT. SAND. GREENHOUSE SODIUM. CHLORIDE. NITRATE. AMMONIUM VEGETATIVE GROWTH. MINERAL COMPOSITION

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1542. OSAWA. T. EFFECTS OF VARIOUS CONCENTRATIONS OF SODIUM CHLORIDE ON THE GROWTH. FLOWERING. FRUIT-BEARING. AND CHEMICAL COMPOSITION OF EGG-PLANTS IN SAND CULTURE. (JAP; ENG SUM). HORT. ASSOC. JAPAN 26: 9-14. 1957. EGGPLANT SOLANACEAE: SOLANUM ESCULENTUM. SAND. GREENHOUSE. POT SODIUM. CHLORIDE VEGETATIVE GROWTH. FLOWERING. FRUIT QUALITY. MINERAL COMPOSITION

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1544. OSAWA. T. STUDIES ON THE SALT TOLERANCE OF VEGETABLE CROPS IN SAND CULTURE. II. ON LEAF VEGETABLES. (JAP; ENG SUM). JPN. SOC. HORT. SCI. J. 30: 48-56. 1961. CABBAGE; SPINACH; CABBAGE. CHINESE. CELERY; ONION; LETTUCE; HORNWORT. JAPANESE CRUCIFERAE: BRASSICA OLERACEA VAR CAPITATA. BRASSICA PEKINENSIS; CHENOPODIACEAE: SPINACIA OLERACEA; COMPOSITAE: LACTUCA SATIVA; UMBELLIFERAE: APIUM GRAVEOLENS VAR DULCE; AMARYLLIDACEAE: ALLIUM CEPA; CERATOPHYLLACEAE: CERATOPHYLLUM. SAND. GREENHOUSE SODIUM. CHLORIDE VEGETATIVE GROWTH. MINERAL COMPOSITION

1545. OSAWA. T. STUDIES ON THE SALT TOLERANCE OF VEGETABLE CROPS IN SAND CULTURE. III. ON ROOT VEGETABLES. (JAP; ENG SUM). JPN. SOC. HORT. SCI. J. 30: 161-166. 1961. RADISH; TURNIP; CARROT CRUCIFERAE: RAPHANUS SATIVUS. BRASSICA RAPA; UMBELLIFERAE: DAUCUS CAROTA VAR SATIVA. SAND. GREENHOUSE SODIUM. CHLORIDE VEGETATIVE GROWTH. LEAF INJURY. MINERAL COMPOSITION

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SALT INJURY OF VEGETABLE CROPS WITH SPECIAL REFERENCE TO THE MINERAL NUTRITION. (JAP; ENG SUM). JPN. SOC. HORT. SCI. J. 30: 241-252. 1961. PAK-CHOI; CABBAGE; RADISH; CABBAGE, CHINESE; CELERY; TOMATO; SPINACH; TURNIP; EGGPLANT; ONION; LETTUCE; STRAWBERRY; CARROT; PEPPER; CUCUMBER; PARSLEY, BEAN, BROAD; BEAN CRUCIFERAE; BRASSICA CHINENSIS, BRASSICA OLERACEA VAR CAPITATA, RAPHANUS SATIVUS, BRASSICA PEKINENSIS, BRASSICA RAPA; COMPOSITAE LACTUCA SATIVA; UMBELLIFERAE; APIUM GRAVEOLENS, PETROSELINUM CRISPUM, DAUCUS CAROTA VAR SATIVA; SOLANACEAE; LYCOPERSICON ESCULENTUM, CAPSICUM FRUTESCENS, SOLANUM MELONGENA; CHENOPODIACEAE; SPINACIA OLERACEA; AMARYLLIDACEAE; ALLIUM CEPA; CUCURBITACEAE; CUCUMIS SATIVUS; LEGUMINOSAE; PHASEOLUS VULGARIS, VICIA FABA. SAND, GREENHOUSE SODIUM, CHLORIDE VEGETATIVE GROWTH, NUTRITION, SALT TOLERANCE

1547. OSAWA, T. STUDIES ON THE SALT TOLERANCE OF VEGETABLE CROPS WITH SPECIAL REFERENCE TO MINERAL NUTRITION. (JAP; ENG SUM). BULL. UNIV. OSAKA PREF. SERIES B16: 13-57. 1965. EGGPLANT; TOMATO; PEPPER; CUCUMBER; BEAN, BROAD; BEAN, KIDNEY; STRAWBERRY; PAK-CHOI; CABBAGE; SPINACH; CABBAGE, CHINESE; ONION, WELSH; ONION; LETTUCE; HORNWORT, JAPANESE; RADISH; TURNIP; CARROT SOLANACEAE; LYCOPERSICON ESCULENTUM, CAPSICUM FRUTESCENS, SOLANUM MELONGENA; UMBELLIFERAE; DAUCUS CAROTA VAR SATIVA, APIUM GRAVEOLENS VAR DULCE; CUCURBITACEAE; CUCUMIS SATIVUS; COMPOSITAE; LACTUCA SATIVA; LEGUMINOSAE; PHASEOLUS VULGARIS, VICIA FABA; CHENOPODIACEAE; SPINACIA OLERACEA; ROSACEAE; FRAGARIA; AMARYLLIDACEAE; ALLIUM CEPA, ALLIUM FISTULOSUM; CRUCIFERAE; BRASSICA OLERACEA VAR CAPITATA, RAPHANUS SATIVUS, BRASSICA RAPA, BRASSICA CHINENSIS, BRASSICA PEKINENSIS; CERATOPHYLLACEAE; CERATOPHYLLUM. SAND, POT, GREENHOUSE SODIUM, CHLORIDE TOXICITY, MINERAL COMPOSITION

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1551. OSAWA, T. STUDIES ON THE SODIUM CHLORIDE INJURY OF VEGETABLE CROPS IN RELATION TO THE FORM OF NITROGEN SUPPLIED AND THE CALCIUM NUTRITION IN SAND CULTURE. (JAP; ENG SUM). JPN. SOC. HORT. SCI. J. 31: 227-234. 1962. SPINACH; CABBAGE, CHINESE CRUCIFERAE; BRASSICA PEKINENSIS; CHENOPODIACEAE; SPINACIA OLERACEA. SAND, GREENHOUSE CALCIUM, NITRATE, AMMONIUM, CHLORIDE, SODIUM MINERAL COMPOSITION

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1553. OSMOND, C. B.; GREENWAY, H. SALT RESPONSES OF CARBOXYLATION ENZYMES FROM SPECIES DIFFERING IN SALT TOLERANCE. PLANT PHYSIOL. 49: 260-263. 1972. CORN; BEAN; SALTBUSH GRAMINEAE; ZEA MAYS; LEGUMINOSAE; PHASEOLUS VULGARIS; CHENOPODIACEAE; ATRIPLEX SPONGIOSA, ATRIPLEX NUMMULARIA. SODIUM, CHLORIDE, POTASSIUM, SULFATE, PHOSPHOENOLPYRUVATE CARBOXYLASE, RIBULOSE DISPHOSPHATE CARBOXYLASE ENZYME ACTIVITY

1554. OTA, K.; HAYASHI, H. STUDIES ON THE SALT INJURY TO CROPS. IX. EFFECT OF SODIUM CHLORIDE ON THE ROOT DEVELOPMENT OF THE YOUNG WHEAT PLANT. (JAP; ENG SUM). GIFU UNIV. FAC. AGRIC RES. BULL. 6: 21-27. 1956. WHEAT GRAMINEAE;

TRITICUM AESTIVUM. TEST TUBE. WATER CULTURE SODIUM. CHLORIDE ROOT GROWTH. RESPIRATION. WATER UPTAKE

1555. OTA. K.: HAYASHI. H.: KARIYA. T. STUDIES ON THE SALT INJURY TO CROPS. VII. ON THE RESISTANCE OF WHEAT TO SALT INJURIES UNDER THE VARYING CONCENTRATIONS OF NUTRIENT SOLUTION. (JAP: ENG SUM). GIFU UNIV. FAC. AGRIC. RES. BULL. 5: 31-36. 1955. WHEAT GRAMINEAE: TRITICUM AESTIVUM. SAND SODIUM. CHLORIDE VEGETATIVE GROWTH. SODIUM UPTAKE. CHLORIDE UPTAKE

1556. OTA. K.: OGO. T. FUNDAMENTAL STUDIES ON SALINE INJURY ON WHEAT PLANTS. (JAP). OKAYAMA PREF. AGRIC. EXPT. STA. SPEC. BULL. 49: 17-24. 1954. WHEAT GRAMINEAE: TRITICUM AESTIVUM. SODIUM. CHLORIDE AMYLASE. SUGAR. STARCH. MINERAL COMPOSITION. CHLORIDE UPTAKE

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1558. OTA. K.: OGO. T.: OMORI. N. STUDIES ON THE SALT INJURY IN CROPS. V. INFLUENCE OF NACL SOLUTIONS UPON THE GERMINATION IN WHEAT. (JAP: ENG SUM). SCI. REPT. FAC. AGRIC. OKAYAMA UNIV. 2: 28-37. 1953. WHEAT GRAMINEAE: TRITICUM AESTIVUM. WATER CULTURE SODIUM. CHLORIDE. GLUCOSE. SEA WATER ENZYME ACTIVITY. AMYLASE. PEROXIDASE. SEEDLING GROWTH. GERMINATION

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1560. OTA. K.: OGO. T.: SASAI. K. STUDIES ON THE SALT INJURY ON CROPS. VII. RELATION BETWEEN THE METALLIC ELEMENTS METABOLISM OF WHEAT AND THE SALT INJURY. (JAP: ENG SUM). SCI. REPT. FAC. AGRIC. OKAYAMA UNIV. 4: 1-6. 1954. WHEAT GRAMINEAE: TRITICUM AESTIVUM. WATER CULTURE SODIUM. CHLORIDE MINERAL COMPOSITION

1561. OTA. K.: YASUE. T. STUDIES ON SALT INJURY TO CROPS. XII. THE EFFECT OF SODIUM CHLORIDE SOLUTION ON THE GERMINATION FORCE OF PADDY RICE SEEDS. (JAP: ENG SUM). PROC. CROP SCI. SOC. JAPAN 27: 223-225. 1958. RICE GRAMINEAE: ORYZA SATIVA. GERMINATION DISHES. WATER CULTURE SODIUM. CHLORIDE. VARIETY GERMINATION

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1563. OTA. K.: YASUE. T. STUDIES ON THE SALT INJURY TO CROPS. XI. THE DIFFERENCES OF THE SALT RESISTANCE IN THE YOUNG WHEAT VARIETIES. (JAP: ENG SUM). GIFU. IMP. COLL. AGRIC. RES. BULL. 8: 14-22. 1957. WHEAT GRAMINEAE: TRITICUM AESTIVUM. GERMINATION DISHES SODIUM. CHLORIDE. VARIETY GERMINATION. SALT TOLERANCE. SEEDLING GROWTH

1564. OTA. K.: YASUE. T.: IWATSUKU. M. STUDIES ON THE SALT INJURY TO CROPS. X. RELATIONS BETWEEN THE SALT INJURY AND THE POLLEN GERMINATION IN RICE. (JAP: ENG SUM). GIFU UNIV. FAC. AGRIC. RES. BULL. 7: 15-20. 1956. RICE GRAMINEAE: ORYZA SATIVA. POT. WATER CULTURE SODIUM. CHLORIDE GERMINATION. VEGETATIVE GROWTH

1565. OTA. K.: YASUE. T.: NAKAGAWA. M. STUDIES ON THE SALT INJURY TO CROPS. XIII. THE VARIETAL DIFFERENCES OF THE SALT RESISTANCE IN GERMINATION AND SEEDLING GROWTH OF RICE PLANT. (JAP: ENG SUM). GIFU. UNIV FAC. AGRIC. RES. BULL. 9: 7-11. 1958. RICE GRAMINEAE: ORYZA SATIVA. GERMINATION DISHES. FIELD PLOT. SOIL SODIUM. CHLORIDE. VARIETY GERMINATION. SEEDLING GROWTH. SALT TOLERANCE

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COMPOSITAE: LACTUCA SATIVA: AMARYLLIDACEAE: ALLIUM CEPA: CHENOPODIACEAE: SPINACIA OLERACEA, BETA VULGARIS: SOLANACEAE: SOLANUM TUBEROSUM, CAPSICUM FRUTESCENS, NICOTIANA TABACUM, LYCOPERSICON ESCULENTUM. POT, GREENHOUSE, SOIL BORON, SOIL TYPE SALT TOLERANCE, TOXICITY

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MARITIMUS. AEGILOPS OVATUM. AGROSTIS. CALAMAGROSTIS. TRITICUM VILLOSUM; IRIDACEAE: THELYSIA ALATA; EUPHORBIACEAE: EUPHORBIA EXIGUA; CHENOPODIACEAE: SUAEDA FRUTICOSA. SUAEDA MARITIMA. SUAEDA SPLENDENS. ARTHROCNEMUM MACROSTACHYUM. HALOCNEMUM STROBILACEUM. SALICORNIA FRUTICOSA. SALICORNIA ERBACEA. ATRIPLEX ROSEA. ATRIPLEX PATULA. CHENOPODIUM OLIDUM. CHENOPODIUM ALBUM; PLANTAGINACEAE: PLANTAGO CORONOPUS. FIELD PLOT. SOIL SODIUM. CHLORIDE. LEACHING LEAF INJURY

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RUBIACEAE: DIODIA TERES; EUPHORBIACEAE: EUPHORBIA POLYGONIFOLIA, CROTON PUNCTATUS; COMPOSITAE: HETEROTHECA SUBAXILLARIS, IVA IMBRICATA, ERIGERON CANADENSIS, SOLIDAGO SEMPERVIRENS, LEGUMINOSAE: STROPHOSTYLES HELVOLA; PLUMBAGINACEAE: LIMONIUM CAROLINIANUM; UMBELLIFERAE: HYDROCOTYLE BONARIENSIS; SOLANACEAE: PHYSALIS VISCOSA; CRUCIFERAE: CAKILE EDENTULA; AGAVACEAE: YUCCA ALOIFOLIA; CHENOPODIACEAE: SALSOLA KALI, ATRIPLEX PATULA; LILIACEAE: SMILAX BONA-NOX. SAND, SOIL, FIELD SALT SPRAY ECOLOGY

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TISSUES FOR COMPARATIVE STUDY OF THEIR SALT RESISTANCE. SOVIET PLANT PHYSIOL. 15: 173-177. 1968. GLASSWORT; SORGHUM; CLOVER, SWEET; CABBAGE GRAMINEAE; SORGHUM VULGARE; CHENOPODIACEAE: BETA VULGARIS; LEGUMINOSAE: MELILOTUS ALBA; CRUCIFERAE: BRASSICA OLERACEA VAR CAPITATA. WATER CULTURE, TEST TUBE, GROWTH CHAMBER SODIUM, CHLORIDE, SULFATE, CASEIN HYDROLYZATE, HERBICIDE, KINETIN SALT TOLERANCE

2074. STROGONOV, B. P.; LAPINA, L. P. A POSSIBLE METHOD FOR SEPARATELY STUDYING THE TOXIC AND OSMOTIC ACTION OF SALTS ON PLANTS. SOVIET PLANT PHYSIOL. 11: 575-579. 1964. RYE; BARLEY; CORN; BEAN, BROAD; SUNFLOWER GRAMINEAE: ZEA MAYS, HORDEUM VULGARE, SECALE CEREALE; LEGUMINOSAE: VICIA FABA; COMPOSITAE: HELIANTHUS ANNUUS. WATER CULTURE, GREENHOUSE MANNITOL, SODIUM, CHLORIDE, DEXTRAN, SULFATE VEGETATIVE GROWTH, OSMOTIC POTENTIAL, TOXICITY

2075. STROGONOV, B. P.; OKNINA, E. Z. ON THE DORMANCY OF PLANTS UNDER CONDITIONS OF IRRIGATION WITH SALT SOLUTIONS. SOVIET PLANT PHYSIOL. 8: 55-60. 1961. TOMATO; BARLEY; COTTON SOLANACEAE: LYCOPERSICON ESCULENTUM; GRAMINEAE: HORDEUM VULGARE; MALVACEAE: GOSSYPIUM HIRSUTUM. POT, SOIL, GRAVEL SODIUM, CHLORIDE, SULFATE SEEDLING GROWTH, PLASMOLYSIS

2076. STROGONOV, B. P.; OSTAPENKO, L. A. LEAF ALBUMINS AS AN INDEX FOR SALT RESISTANCE OF COTTON PLANTS. COMP. REND. ACAD. SCI. USSR 30: 66-68. 1941. COTTON MALVACEAE: GOSSYPIUM. SOIL LIGHT, SALINE SOIL ALBUMIN

2077. STROGONOV, B. P.; OSTAPENKO, L. A. ON THE CARBOHYDRATE EXCHANGE IN COTTON UNDER CONDITIONS OF INCREASING SOIL SALINITY. ACAD. SCI. URSS COMPT. REND. 54: 273-276. 1946 COTTON MALVACEAE: GOSSYPIUM HIRSUTUM. FIELD PLOT, SOIL SALINE SOIL, VARIETY CARBOHYDRATE, VEGETATIVE GROWTH

2078. STROGONOV, B. P.; OSTAPENKO, L. A. ON THE INTOXICATION OF COTTON PLANTS WITH AMMONIA WHEN GROWN UNDER CONDITIONS OF INCREASED SOIL SALINITY. DOKLADY AN SSSR, 54: 365-367. 1946. COTTON MALVACEAE: GOSSYPIUM HIRSUTUM. FIELD PLOT SALINE SOIL AMMONIA UPTAKE, TOXICITY

2079. STROGONOV, B. P.; SHEVYAKOVA, N. I.; KABANOV, V. V. DIAMINES IN PLANT METABOLISM UNDER CONDITIONS OF SALINIZATION. SOVIET PLANT PHYSIOL. 19: 938-943. 1972. BEAN, BROAD; PEA LEGUMINOSAE: VICIA FABA, PISUM SATIVUM. SODIUM, CHLORIDE ENZYME ACTIVITY, PUTRESCINE, CADAVERINE

2080. STROGONOV, B. P.; SHEVYAKOVA, N. I.; KARNAUKHOVA, T. B. FORMATION OF DARK SUBSTANCES IN SALT-POISONED PLANTS. DOKLADY AN SSSR 143: 984-986. 1962. PEA; BEAN, BROAD LEGUMINOSAE: VICIA FABA, PISUM SATIVUM GREENHOUSE, SOIL SODIUM, CHLORIDE PUTRESCINE, CADAVERINE, ENZYME ACTIVITY

2081. STROGONOV, B. P.; SHEVYAKOVA, N. I.; LAPINA, L. P. MECHANISM OF THE TOXIC EFFECT OF SALTS ON PLANTS. (RUS). IN SBORNIK "FIZIOLOGIYA USTOICHIVOSTI RASTENII (MOROZOUSTOICHIVOST', ZASUKHOUSTOICHIVOST' I SOLEUSTOCHIVOST')" MOSKVA, IZDATEL'STVO AN SSSR: 649-653. 1960 COTTON; BARLEY, BEAN, BROAD LEGUMINOSAE: VICIA FABA; GRAMINEAE: HORDEUM VULGARE, MALVACEAE: GOSSYPIUM. SOIL SODIUM, CHLORIDE, SULFATE, CARBONATE ENZYME ACTIVITY, PUTRESCINE, ARGININE, PROLINE

2082. STROGONOV, B. P.; TARVERDYAN, V. I.; KABANOV, V. V. EFFECT OF ABSORBED SODIUM AND CHLORINE IONS ON PEA PLANTS. SOVIET PLANT PHYSIOL. 19: 665-669. 1972. PEA LEGUMINOSAE: PISUM SATIVUM. WATER CULTURE SODIUM, CHLORIDE SODIUM UPTAKE, CHLORIDE UPTAKE, ASH, WATER CONTENT, ORGANIC COMPOUNDS

2083. STROMBERG, L. K.; YAMADA, H. WATER QUALITY IN RICE FIELDS, STUDIES OF POSSIBLE CAUSES OF POOR RICE STANDS INDICATE LEVEL OF TOTAL SALTS CONTENT OF WATER INFLUENCES GROWTH AND YIELD. CALIF. AGRIC. 9: 10. 1955. RICE GRAMINEAE: ORYZA SATIVA. SOIL, POT SODIUM, CHLORIDE VEGETATIVE GROWTH

2084. STRONG, E. C. A STUDY OF CALCIUM CHLORIDE INJURY TO ROADSIDE TREES. MICH. AGRIC. EXPT. STA. QUART. BULL. 27: 209-224. 1944. OAK, RED; ELM, AMERICAN; MAPLE, SUGAR; ASH, WHITE; BEECH; COTTONWOOD; ASPEN; FIR, BALSAM; SPRUCE, WHITE ULMACEAE: ULMUS AMERICANA; FAGACEAE: QUERCUS BOREALIS, QUERCUS ALBA, FAGUS GRANDIFOLIA; PINACEAE: ABIES BALSAMEA, PICEA GLAUCA; SALICACEAE: POPULUS DELTOIDES, POPULUS TREMULOIDES; ACERACEAE: ACER SACCHARUM; OLEACEAE: FRAXINUS AMERICANA. POT, FIELD PLOT, SOIL CALCIUM, CHLORIDE LEAF INJURY, TOXICITY, VEGETATIVE GROWTH

2085. STRUZESKI, E. ENVIRONMENTAL IMPACT OF HIGHWAY DEICING. ENVIRON. PROTECT. AGENCY, WATER QUAL. RES. WATER POLLUTION CONTROL RES. SERIES (11040-GKK): 120 PP. 1971. NATIVE VEGETATION; VEGETABLE; FRUIT TREE; TREE; GRASS FIELD, SOIL DEICING SALT ECOLOGY, TOXICITY, VEGETATIVE GROWTH

2086. STYLIANOU, Y.; ORPHANOS, P. I. IRRIGATION OF SHAMOUTI ORANGES WITH SALINE WATER. CYPRUS AGRIC. RES. INST. TECH. BULL. 6: 3-23. 1970. ORANGE RUTACEAE: CITRUS SINENSIS. SOIL, FIELD PLOT CHLORIDE, LEACHING, BRACKISH WATER MINERAL UPTAKE

2087. SUBBA-RAO, N. S.; LAKSHMI-KUMARI, M.; SINGH, C. S.; BISWAS, A. SALINITY AND ALKALINITY IN RELATION TO LEGUME-RHIZOBIUM SYMBIOSIS. PROC. INDIAN NAT. SCI. ACAD. 40: 544-547. 1974. ALFALFA LEGUMINOSAE; MEDICAGO SATIVA. SODIUM, CHLORIDE, POTASSIUM, MAGNESIUM, BICARBONATE, CARBONATE NODULATION, GERMINATION

2088. SUBBA-RAO, N. S.; LAKSHMI-KUMARI, M.; SINGH, S.; MAGU, S. P. NODULATION OF LUCERNE (MEDICAGO SATIVA L.) UNDER THE INFLUENCE OF SODIUM CHLORIDE. INDIAN J. AGRIC. SCI. 42: 384-386. 1972. ALFALFA LEGUMINOSAE; MEDICAGO SATIVA. GERMINATION DISHES SODIUM, CHLORIDE, RHIZOBIUM MELILOTI NODULATION, VEGETATIVE GROWTH, GERMINATION

2089. SUBRAMONEY, N.; AMMA, P. A. SALT TOLERANCE OF CERTAIN VARIETIES OF PADDY. AGRIC. RES. J. KERALA 6: 57-58. 1968. RICE GRAMINEAE; ORYZA SATIVA. SOIL VARIETY, SODIUM, CHLORIDE GERMINATION, SALT TOLERANCE

2090. SUCOFF, E. EFFECTS OF DEICING SALTS ON WOODY VEGETATION ALONG MINNESOTA ROADS. MINN. AGRIC. EXPT. STA. BULL. 303: 49 PP. 1975. (CITATION CONTINUED BELOW). MAPLE, AMUR; BOX ELDER; MAPLE, NORWAY; MAPLE, RED; MAPLE, SILVER; MAPLE, SUGAR; MAPLE, TATARIAN; CHESTNUT, HORSE; ALDER, BLACK; ALDER; ALDER, SPECKLED; ALDER, SMOOTH; FIR, BALSAM; SERVICEBERRY; BARBERRY, KOREAN; BARBERRY, JAPANESE; BARBERRY, COMMON; BIRCH, YELLOW; BIRCH, CHERRY; BIRCH, PAPER; BIRCH, EUROPEAN WHITE; BIRCH, GRAY; PEA-TREE, SIBERIAN; HORNBEAM, AMERICAN; HICKORY, SHAGBARK; HACKBERRY; CYPRESS, SAWARA; TRAVELER'S JOY; DOGWOOD, SIBERIAN; CHERRY, CORNELIAN; DOGWOOD, RED; DOGWOOD, RED-OSIER; DOGWOOD, YELLOWTWIG; HAZEL, AMERICAN; HAZEL, BEAKED; COTONEASTER; HAWTHORN, COCKSPUR; OLIVE, RUSSIAN; EUONYMUS, WINGED; EUONYMUS, EUROPEAN; ASH, WHITE; ASH, GREEN; ASH, MARSHALL SEEDLESS; LOCUST, HONEY; LOCUST, HONEY THORNLESS; LOCUST, IMPERIAL HONEY; SALT TREE; BUCKTHORN, SEA; WALNUT, BLACK; JUNIPER, PFITZER; JUNIPER, HORIZONTAL; CEDAR, RED; LARCH, EUROPEAN; LARCH, JAPANESE; PRIVET; HONEYSUCKLE, SWEETBERRY; HONEYSUCKLE, TATARIAN; HONEYSUCKLE, ZABEL'S; HONEYSUCKLE, EUROPEAN FLY; MATRIMONY VINE, CHINESE; MATRIMONY VINE; CRABAPPLE, DOLGO; CRABAPPLE, HOPA; CRABAPPLE, RADIANT; MULBERRY, WHITE; VIRGINIA CREEPER; ORANGE, MOCK SWEET; NINEBARK, DWARF; SPRUCE, NORWAY; SPRUCE, WHITE; SPRUCE, BLACK HILLS WHITE; SPRUCE, COLORADO BLUE; PINE, SWISS STONE; PINE, MUGO; PINE, AUSTRIAN; PINE, PONDEROSA; PINE, RED; PINE, WHITE; PINE, SCOTS; POPLAR, WHITE; COTTONWOOD, NARROWLEAVED; POPLAR, BALSAM; POPLAR, GRAY; COTTONWOOD; ASPEN, LARGE TOOTHED; POPLAR, BLACK; POPLAR, LOMBARDY; COTTONWOOD, GREAT PLAINS; POPLAR, WESTERN BALSAM; ASPEN, TREMBLING; POTENTILLA, JACKMAN'S; CHERRY, EUROPEAN BIRD; CHERRY, BLACK; FIR, DOUGLAS; OAK, WHITE; OAK, SWAMP WHITE; OAK, BUR; OAK, YELLOW CHESTNUT; OAK, COMMON PIN; OAK, RED; BUCKTHORN, ALDER; SUMAC, SMOOTH; SUMAC, ILL SCENTED; CURRANT, ALPINE; CURRANT, AMERICAN BLACK; OSIER; CURRANT, GOLDEN; CURRANT, EUROPEAN BLACK; LOCUST, BLACK; ROSE, DOG; ROSE, MULTIFLORA; ROSE, RUGOSA; WILLOW, WHITE; WILLOW, GOLDEN; WILLOW, ALMOND LEAVED; WILLOW, GOAT; WILLOW, LAUREL LEAF; OSIER, PURPLE; OSIER, PURPLE DWARF; ELDER, AMERICAN; ELDER, EUROPEAN; ELDER, EUROPEAN RED; BUFFALO BERRY; ASH, EUROPEAN MOUNTAIN; ASH, MOUNTAIN SHOW ; SPIRAEA, FROEBEL'S; SPIRAEA, VANHOUTTE'S; SNOWBERRY; SNOWBERRY, GARDEN; CORALBERRY; WAXBERRY; LILAC; TAMARISK, FINESTAMEN; CEDAR, EASTERN WHITE; LINDEN, AMERICAN; LINDEN, SMALL LEAVED EUROPEAN; LINDEN, LARGE LEAVED; HEMLOCK, EASTERN; ELM, AMERICAN; ELM, WYCH; ELM, SIBERIAN; WAYFARING TREE; CRANBERRY, EUROPEAN HIGHBUSH; CRANBERRY, AMERICAN HIGHBUSH; HONEYSUCKLE, AMUR FIELD, SOIL DEICING SALT, SALT SPRAY LEAF INJURY, VEGETATIVE GROWTH

2091. SUCOFF, E. EFFECTS OF DEICING SALTS ON WOODY VEGETATION ALONG MINNESOTA ROADS. MINN. AGRIC. EXPT. STA. BULL. 303: 49 PP. 1975. (CONTINUED FROM CITATION ABOVE). ACERACEAE; ACER NEGUNDO, ACER GINNALA, ACER PLATANOIDES, ACER RUBRUM, ACER SACCHARINUM, ACER SACCHARUM, ACER TATARICUM; ANACARDIACEAE; RHUS GLABRA, RHUS TRILOBATA; BERBERIDACEAE; BERBERIS KOREANA, BERBERIS THUNBERGII, BERBERIS VULGARIS; CAPRIFOLIACEAE; LONICERA AMOENA VAR ALBA, LONICERA CAERULEA, LONICERA MAACKII, LONICERA PERICLYMENUM, LONICERA TATARICA, LONICERA TATARICA "ZABELII", LONICERA XYLOSTEUM, SAMBUCUS CANADENSIS, SAMBUCUS NIGRA, SAMBUCUS RACEMOSA, SYMPHORICARPOS ALBUS, SYMPHORICARPOS ALBUS VAR LAEVIGATUS, SYMPHORICARPOS ORBICULATUS, SYMPHORICARPOS RACEMOSUS, VIBURNUM LANTANA, VIBURNUM OPULUS, VIBURNUM TRILOBUM; CELASTRACEAE; EUONYMUS ALATA, EUONYMUS EUROPAEA, EUONYMUS VERRUCOSA; CHENOPODIACEAE; ATRIPLEX HASTATA,

ATRIPLEX SEMIBACCATA, ATRIPLEX VESICARIA; CORNACEAE: CORNUS ALBA, CORNUS ALBA "KESSELRINGII", CORNUS ALBA "SIBIRICA", CORNUS ALBA "SPAETHII", CORNUS AMOMUM, CORNUS MAS, CORNUS SANGUINEA, CORNUS STOLONIFERA, CORNUS STOLONIFERA "FLAVIRAMEA"; CORYLACEAE: ALNUS GLUTINOSA, ALNUS HIRSUTA, ALNUS INCANA, ALNUS RUGOSA, BETULA HUMILIS, BETULA ALLEGHANIENSIS, BETULA KIRGHISORUM, BETULA LENTA, BETULA PENDULA, BETULA PAPYRIFERA, BETULA POPULIFOLIA, BETULA PUBESCENS, CARPINUS CAROLINIANA, CORYLUS AMERICANA, CORYLUS CORNUTA; CUPRESSACEAE: CHAMAECYPARIS PISIFERA, JUNIPERUS CHINENSIS "PFITZERANA", JUNIPERUS HORIZONTALIS "PLUMOSA", JUNIPERUS VIRGINIANA, THUJA OCCIDENTALIS; ELAEAGNACEAE: ELAEAGNUS ANGUSTIFOLIA, ELAEAGNUS X EBBINGEI, ELAEAGNUS UMBELLATA, HIPPOPHAE RHAMNOIDES, SHEPHERDIA ARGENTEA; FAGACEAE: QUERCUS ALBA, QUERCUS BICOLOR, QUERCUS MACROCARPA, QUERCUS MUEHLENBERGII, QUERCUS PALUSTRIS, QUERCUS RUBRA; HIPPOCASTANACEAE: AESCULUS HIPPOCASTANUM; JUGLANDACEAE: CARYA OVATA, JUGLANS NIGRA;

2092. SUCOFF, E. EFFECTS OF DEICING SALTS ON WOODY VEGETATION ALONG MINNESOTA ROADS. MINN. AGRIC. EXPT. STA. BULL. 303: 49 PP. 1975. (CONTINUED FROM CITATION ABOVE). LEGUMINOSAE: CARAGANA ARBORESCENS, GLEDITSIA TRIACANTHOS VAR INERMIS, GLEDITSIA TRIACANTHOS, HALIMODENDRON HALODENDRON, ROBINIA PSEUDOACACIA; MORACEAE: MORUS ALBA; OLEACEAE: FRAXINUS AMERICANA, FRAXINUS ANGUSTIFOLIA, FRAXINUS PENNSYLVANICA VAR LANCEOLATA, FRAXINUS PENNSYLVANICA, FRAXINUS PENNSYLVANICA VAR SUBINTEGERINA, LIGUSTRUM VULGARE, SYRINGA VULGARIS; PINACEAE: ABIES BALSAMEA, LARIX DECIDUA, LARIX LEPTOLEPIS, PICEA ABIES, PICEA GLAUCA, PICEA GLAUCA VAR DENSATA, PICEA PUNGENS, PINUS CEMBRA, PINUS MUGO, PINUS NIGRA, PINUS PONDEROSA, PINUS RESINOSA, PINUS STROBUS, PINUS SYLVESTRIS, PSEUDOTSUGA MENZIESII, TSUGA CANADENSIS; ROSACEAE: AMELANCHIER X GRANDIFLORA, AMELANCHIER OVALIS, COTONEASTER INTEGERRIMUS, CRATAEGUS CRUS-GALLI, CRATAEGUS PUNCTATA, CRATAEGUS SANGUINEA, MALUS DOLGO, MALUS "HOPA", MALUS "RADIANT", MALUS SYLVESTRIS, PHYSOCARPUS OPULIFOLIUS "NANUS", POTENTILLA FRUTICOSA, PRUNUS PADUS, PRUNUS SEROTINA, ROSA CANINA, ROSA MULTIFLORA, ROSA VIRGINIANA, SORBUS AUCUPARIA, SORBUS DECORA, SORBUS X HYBRIDA, SORBUS LATIFOLIA, SPIRAEA BUMALDA "FROEBELII", SPIRAEA VANHOUTTEI; RANUNCULACEAE: CLEMATIS VITABLA; RHAMNACEAE: RHAMNUS CATHARTICA, RHAMNUS CRENATA, RHAMNUS DAVURICA, RHAMNUS FRANGULA; SALICACEAE: POPULUS ACUMINATA, POPULUS ALBA, POPULUS ANGUSTIFOLIA, POPULUS BALSAMIFERA, POPULUS CANADENSIS, POPULUS CANESCENS, POPULUS DELTOIDES, POPULUS GRANDIDENTATA, POPULUS LAURIFOLIA, POPULUS NIGRA, POPULUS NIGRA "ITALICA", POPULUS NIGRA "PLANTIERENSIS", POPULUS SARGENTII, POPULUS TRICHOCARPA, POPULUS TREMULOIDES, SALIX ALBA, SALIX ALBA VAR VITELLINA, SALIX X HELIX, SALIX X ALOPECUROIDES, SALIX AMYGDALINA, SALIX X BASFORDIANA, SALIX CAPREA, SALIX CORDATA, SALIX DAPHNOIDES, SALIX X DASCLADOS, SALIX FRAGILIS, SALIX X HIPPOPHAEFOLIA, SALIX X MEYERIANA, SALIX PENTANDRA, SALIX VIMINALIS, SALIX PURPUREA VAR LAMBERTIANA, SALIX PURPUREA "NANA", SALIX X RUBENS, SALIX STIPULARIS, SALIX X TINCTORIA; SAXIFRAGACEAE: PHILADELPHUS CORONARIUS, RIBES ALPINUM, RIBES AMERICANUM, RIBES AUREUM, RIBES DIVARICATUM, RIBES MAGDALENAE, RIBES NIGRUM; SOLANACEAE: LYCIUM CHINENSE, LYCIUM HALIMIFOLIUM; TAMARICACEAE: TAMARIX PENTANDRA; TILIACEAE: TILIA AMERICANA, TILIA CORDATA, TILIA PLATYPHYLLA; ULMACEAE: ULMUS AMERICANA, ULMUS GLABRA, ULMUS PUMILA, ULMUS PUMILA VAR ARBOREA, CELTIS OCCIDENTALIS; VITACEAE: PARTHENOCISSUS QUINQUEFOLIA.

2093. SUCOFF, E.; FELLER, R.; KANTEN, D. DEICING SALT (SODIUM CHLORIDE) DAMAGE TO PINUS RESINOSA AIT. CAN. J. FOR. RES. 5: 546-556.1975. PINE, RED PINACEAE: PINUS RESINOSA. FIELD, SOIL DEICING SALT, SODIUM, CHLORIDE LEAF INJURY, OSMOTIC POTENTIAL

2094. SUCOFF, E.; HONG, S. G. EFFECT OF NACL ON COLD HARDINESS OF MALUS SPP AND SYRINGA VULGARIS. CAN. J. BOT. 54: 2816-2819. 1976. CRABAPPLE, RADIANT; CRABAPPLE, GARDEN FLOWERING ROSACEAE: MALUS; OLEACEAE: SYRINGA VULGARIS. SOIL SODIUM, CHLORIDE, TEMPERATURE LEAF INJURY, COLD HARDINESS

2095. SUCOFF, E.; HONG, S. G.; WOOD, A. NACL AND TWIG DIEBACK ALONG HIGHWAYS AND COLD HARDINESS OF HIGHWAY VERSUS GARDEN TWIGS. CAN. J. BOT. 54: 2268-2274. 1976. ASH, GREEN; LILAC, COMMON; CRABAPPLE, HOPA FLOWERING; DOGWOOD, RED-OSIER; WILLOW, LAUREL LEAF OLEACEAE: FRAXINUS PENNSYLVANICA, SYRINGA VULGARIS; SALICACEAE: SALIX PENTANDRA; CORNACEAE: CORNUS STOLONIFERA; ROSACEAE: MALUS. SOIL, FIELD, GREENHOUSE, WATER CULTURE TEMPERATURE, SODIUM, CHLORIDE LEAF INJURY, MINERAL COMPOSITION, COLD HARDINESS

2096. SUNDARARAJ, D. D.; RAMAKRISHNAN, V.; KHAN, A. M. M. A.; VIJAYAN, K. P. SPOROBOLUS ORIENTALIS KUNTH AND SPOROBOLUS TREMULUS KUNTH, TWO NEW LAWN GRASSES FOR COASTAL AND SALINE TRACTS. SOUTH INDIAN HORT. 23: 73-74. 1975. GRAMINEAE: SPOROBOLUS ORIENTALIS, SPOROBOLUS TREMULUS. SALT TOLERANCE

2097. SWAIN, R. L.; MOSER, B. C. MEASUREMENT OF AIRBORNE SEA SALT AND ITS EFFECT ON PLANTS. HORTSCIENCE 7: 37. 1972.

BEAN LEGUMINOSAE: PHASEOLUS. GREENHOUSE SALT SPRAY. SODIUM. CHLORIDE LEAF INJURY. SODIUM UPTAKE. CHLORIDE UPTAKE

2098. SWINGLE. W. T.; ROBINSON. T. R.; MAY. E., JR. EXPERIMENTS ON BORON TOLERANCE OF CITRUS PLANTS AND THEIR WILD RELATIVES. AMER. J. BOT. 15: 616-617. 1928. ORANGE. SOUR; ORANGE. BITTER SWEET; MANDARIN. CLEOPATRA; CALAMONDIN; ORANGE. CHINESE BOX; LIME. AUSTRALIAN DESERT RUTACEAE: CITRUS AURANTIUM. CITRUS RETICULATA. CITRUS. SEVERINIA BUXIFOLIA. EREMOCITRUS GLAUCA. ATALANTIA DISTICHA. POT. GREENHOUSE. SOIL BORON SALT TOLERANCE. LEAF INJURY

2099. SYED. M. M.; EL-SWAIFY. S. A. EFFECT OF SALINE WATER IRRIGATION ON N. CO. 310 AND H50-7209 CULTIVARS OF SUGAR-CANE. I. GROWTH PARAMETERS. TROP. AGRIC. (TRINIDAD) 49: 337-346. 1972. SUGARCANE GRAMINEAE: SACCHARUM OFFICINARUM. SOIL. POT VARIETY. SODIUM. CHLORIDE. SULFATE. SEA WATER OSMOTIC POTENTIAL. SALT TOLERANCE

2100. SYED. M. M.; EL-SWAIFY. S. A. EFFECT OF SALINE WATER IRRIGATION ON N. CO. 310 AND H50-7209 CULTIVARS OF SUGAR-CANE. II. CHEMICAL COMPOSITION OF PLANTS. TROP. AGRIC. (TRINIDAD) 50: 45-51. 1973. SUGARCANE GRAMINEAE: SACCHARUM OFFICINARUM. SOIL. POT VARIETY. SODIUM. CHLORIDE. SULFATE. SEA WATER SODIUM UPTAKE. POTASSIUM UPTAKE. CALCIUM UPTAKE. MINERAL COMPOSITION

2101. SYNYTSINA. N. P. SALT RESISTANCE OF THE WINTER WHEAT VARIETY BEZOSTAIA 1. (UKR). ZROSH. ZEMLEROB 14: 23-26. 1972. WHEAT GRAMINEAE: TRITICUM AESTIVUM. BICARBONATE. SULFATE. CHLORIDE TOXICITY. SALT TOLERANCE

2102. SZABOLCS. I. NUTRIENT UPTAKE BY PLANTS IN SALINE AND ALKALI SOILS. INTERNATIONAL POTASH INSTITUTE. POTASSIUM SYMPOSIUM 1970. ROLE OF FERTILIZATION IN THE INTENSIFICATION OF AGRICULTURAL PRODUCTION. INTERNATIONAL POTASH INSTITUTE: BERN. SWITZERLAND: 271-272. 1970.

2103. T SISEL'S'KYI. V. A. AGRONOMIC SALT RESISTANCE OF ALFALFA IN THE SOUTHERN UKRAINE. (UKR). ZROSH ZEMLEROB 13: 22-26. 1972. ALFALFA LEGUMINOSAE: MEDICAGO SATIVA. SULFATE SALT TOLERANCE

2104. TAGAWA. T.; ISHIZAKA. N. PHYSIOLOGICAL STUDIES ON THE TOLERANCE OF RICE PLANTS TO SALINITY. 1. MECHANISM OF ABSORPTION OF CHLORIDE ION BY RICE ROOT. (JAP; ENG SUM). PROC. CROP SCI. JAPAN 31: 249-252. 1963. RICE GRAMINEAE: ORYZA SATIVA. WATER CULTURE SODIUM. CHLORIDE. METABOLIC INHIBITORS. DINITROPHENOL. POTASSIUM CYANIDE. SODIUM AZIDE CHLORIDE UPTAKE. PHOSPHORUS UPTAKE

2105. TAGAWA. T.; ISHIZAKA. N. PHYSIOLOGICAL STUDIES ON THE TOLERANCE OF RICE PLANTS TO SALINITY. 5. EFFECT OF SALT TREATMENT ON THE GROWTH OF RICE LEAVES. (JAP; ENG SUM). MEM. FAC. AGRIC. HOKKAIDO UNIV. 5: 77-82. 1964. RICE GRAMINEAE: ORYZA SATIVA. SAND. GREENHOUSE GROWTH STAGE. SODIUM. CHLORIDE VEGETATIVE GROWTH. LEAF INJURY

2106. TAGAWA. T.; ISHIZAKA. N. PHYSIOLOGICAL STUDIES ON THE TOLERANCE OF RICE PLANTS TO SALINITY. 6. DECREASE IN VIABILITY OF ROOTS DUE TO SALT TREATMENT. (JAP; ENG SUM). MEM. FAC. AGRIC. HOKKAIDO UNIV. 5: 83-88. 1964. RICE GRAMINEAE: ORYZA SATIVA. SODIUM. CHLORIDE. TRIPHENYL TETRAZOLIUM CHLORIDE. ALPHA-NAPHTHYLAMINE OXYGEN UPTAKE. RESPIRATION. OXIDATION-REDUCTION

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VEGETATIVE GROWTH. LEAF INJURY. MINERAL COMPOSITION

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SOIL DEICING SALT. SODIUM. CHLORIDE. CALCIUM. MAGNESIUM. CARBONATE. BICARBONATE ECOLOGY

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